

M 6.3, 189 km SW of Lorengau, Papua New Guinea

Origin Time: 2021-02-07 05:45:51 UTC (Sun 15:45:51 local)

Location: 3.3226° S 146.1444° E Depth: 10.0 km

Created: 3 weeks, 4 days after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

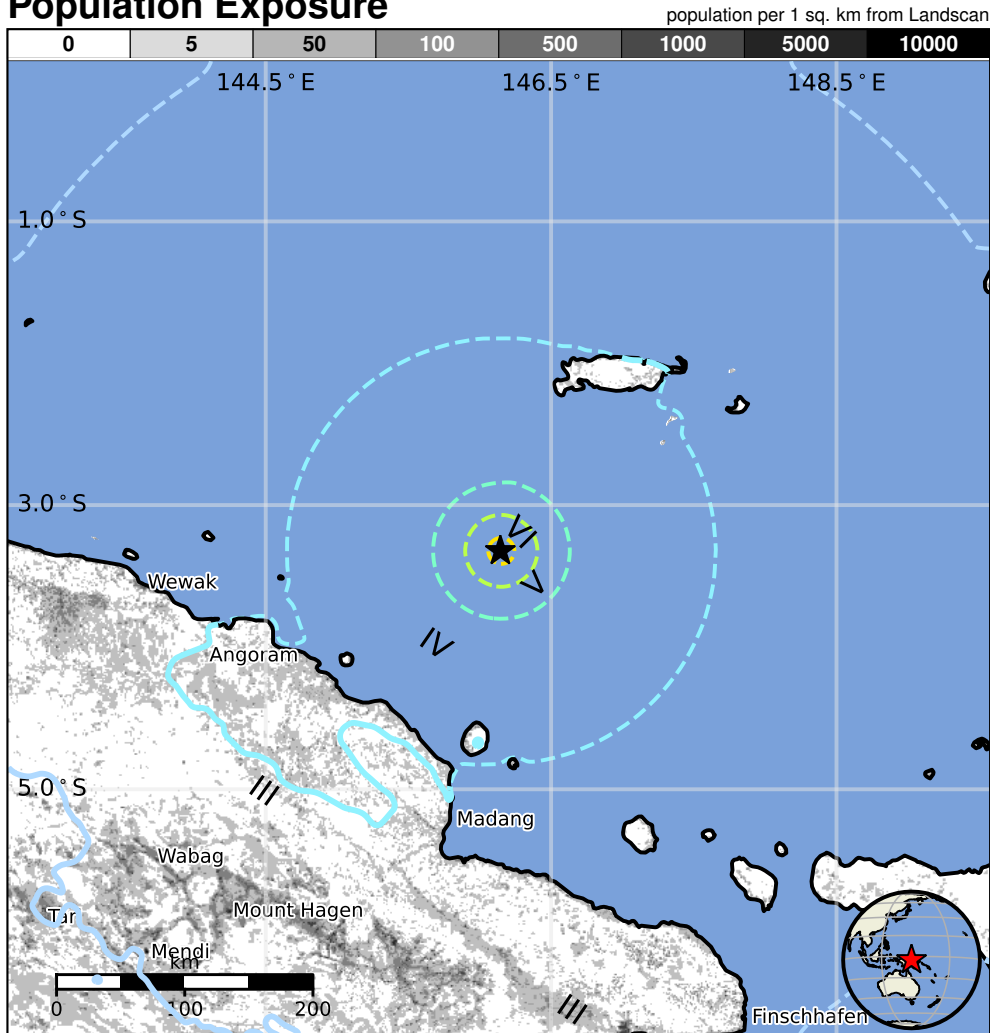


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	4,037k*	350k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2005-06-04	344	6.1	VII(27k)	1
1993-10-16	284	6.3	VII(75k)	3
2002-09-08	355	7.6	IX(17k)	4

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Lorengau	6k
IV	Angoram	2k
III	Madang	27k
III	Kainantu	9k
III	Rauna	<1k
III	Goroka	19k
III	Wewak	18k
III	Mount Hagen	34k
III	Lae	76k
III	Kundiawa	9k
II	Mendi	26k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us6000dfad#pager>

bold cities appear on map.

(k = x1000)

Event ID: us6000dfad